

Notice of Allowability

Application No.

09/972,797

Examiner

David J. Huisman

Applicant(s)

STUTTARD ET AL.

Art Unit

2183

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed on July 20, 2007.
2. ☒ The allowed claim(s) is/are 72-74 and 200-205 (hereafter renumbered as claims 1-9).
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☒ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: all.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☒ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date see attached.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Michael A. Glenn, Reg. No. 30,176, on August 24, 2007, and again on September 10, 2007.

The application has been amended as follows:

Amendments to the Claims

2. Regarding claim 72:
 - In line 6, replace "a said memory unit" with --said memory unit--.
 - In lines 7-8, delete "to the memory unit".
 - In line 1 of paragraph 7 (beginning with "transmitting..."), replace "or each" with --at least one--.
 - In the last two lines of the last paragraph, replace "or each" with --at least one--.
3. Regarding claim 73:
 - In the 2nd to last line of the claim, replace "or each" with --at least one--.
4. Regarding claim 200:
 - In line 1 of paragraph 7 (beginning with "transmitting the or each..."), replace "or each" with --at least one--.
 - In the last two lines of the last paragraph, replace "or each" with --at least one--.

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5. Regarding claim 203:

- In the 2nd to last line of the claim, replace “or each” with --at least one--.

Amendments to the Title

6. Per MPEP 606.01, please replace the current title with --Memory Access Consolidation for SIMD Processing Elements Having Access Indicators--.

Drawings

7. Regarding the drawings, now that the application has been allowed, please submit formal drawings, especially for Fig.13, which will be printed on the front of the patent upon issue.

Reasons For Allowance

8. The following is an examiner’s statement of reasons for allowance:

Regarding claims 72 and 200, the prior art of record has failed to teach, both individually and in combination, and together with all additional claimed features, the consolidation of memory read accesses by having each processing element requiring memory access set an access indicator, selecting one of the access indicating elements, transmitting the selected one’s target address to the remaining elements for comparison against target addresses of those indicating access and, for those elements that have a matching target address, clearing the indicator and storing ID information, retrieving the data item from memory at the selected one’s target address, and receiving the data item by each processing element having the stored ID information.

Regarding claims 73 and 203, the prior art of record has failed to teach, both individually and in combination, and together with all additional claimed features, the consolidation of memory write accesses by having each processing element requiring memory access set an access indicator, selecting one of the access indicating elements, transmitting the selected one's target address to the remaining elements for comparison against target addresses of those indicating access and for those elements that have a matching target address, clearing the indicator and storing ID information, transmitting ID information and, for the set of elements having matching ID information, transmitting data from the set to be stored in memory at the target address.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David J. Huisman whose telephone number is (571) 272-4168. The examiner can normally be reached on Monday-Friday (8:00-4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Chan can be reached on (571) 272-4162. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

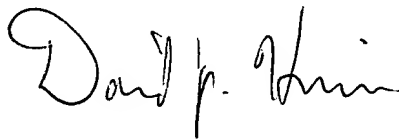
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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DJH

David J. Huisman

September 10, 2007

A handwritten signature in black ink, appearing to read "David J. Huisman". The signature is written in a cursive, flowing style with a large initial "D".